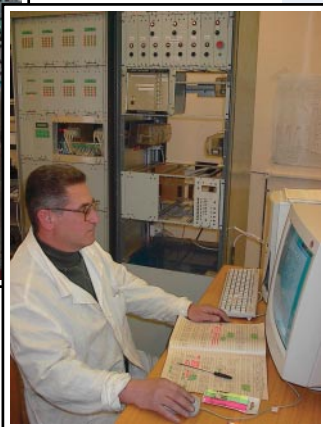
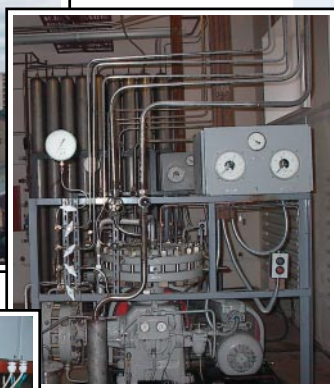
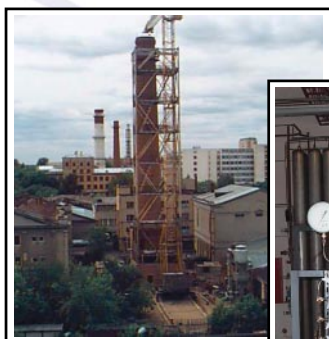


Medical Isotopes: O-18, C-13, Xe-129



- Joint venture to develop low-cost production of stable isotopes for medical use

Oxygen-18 (O-18)

- Demand for PET procedures, metabolism studies has led to worldwide shortage
- Promising research in treatments for obesity, diabetes, other diseases

Carbon-13 (C-13)

- FDA approval of C-13 breath-tests for ulcers expected to exhaust world supply
- C-13 in MRIs provides unique diagnostic information on cancer/tumor progression and treatment response
- Other uses: NMR diagnostics for brain tumors, cerebral blood clots, diabetes, prostate cancer, other conditions

Xenon-129 (Xe-129)

- Xe-129 increases MRI sensitivity/suitability for imaging brain, lungs, whole-body
- Enormous potential as diagnostic of many human ailments

- Goals to establish additional world production capacity in Russia, stimulate medical research with expanded supply of key isotopes

Commercialization Started



Spectra Gases, Inc.
Branchburg, NJ



Cryocarbon, Ltd.
Moscow, Russia



Kurchatov Institute of
Atomic Energy
Moscow, Russia



Lawrence Livermore
National Laboratory
Livermore, CA